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[] 100-63
Copy 6 of 7
13 August 1963

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MEMORANDUM FOR THE RECORD:

SUBJECT: TRIP REPORT - ARC-50 Status

1. During the week of 29 July 1963 the writer made a trip to Fort Wayne, Ind., SAC Headquarters, Beale AFB, LAC Burbank, Cal., []
The purpose of the trip was to determine the status of ARC-50 procurement, installation and training requirements.

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2. A chronology of discussions follows:

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a. 29 July 1963 [] Fort Wayne, Ind. Discussions were held with [] relating to deliveries, technical performance, and training capabilities of []

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(1) Delivery: Of the 50 sets of airborne equipment ordered (24 "A" units for KC-135 and 26 "B" units for Article), all but 16 sets have been delivered to Lockheed. These 16 sets (6 "A" and 6 "B") are due to be delivered by 16 August 1963. The two ground units (QMC-115) to be diverted from an Air Force procurement could be made available approximately six weeks after receipt of order by using airborne space modules. Two additional ground units to be manufactured have a lead time of six months.

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(2) Technical performance: Change requirements were briefly discussed with [] as follows:

- (a) AIF simultaneous with range and voice
- (b) Automatic ranging upon interrogation.
- (c) Short code ranging to reduce time for ranging from 47 seconds to 4 seconds.

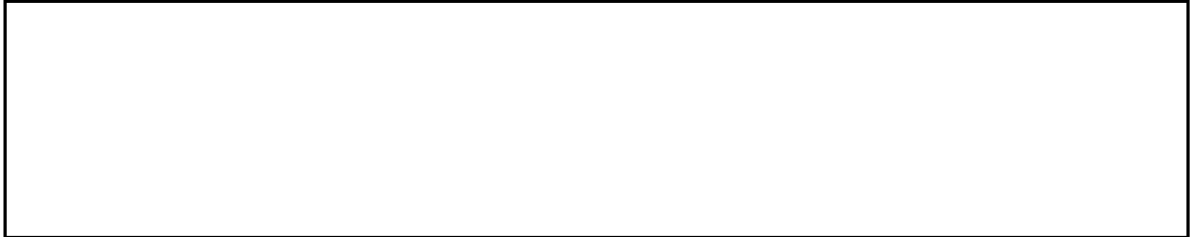
(3) Training requirements:

- 25X1A (a) [] has an indoctrination and orientation audio-slide presentation which they will adapt to our training requirements.
- 25X1A (b) [] has a capability for training in ARC-50 maintenance at both Fort Wayne, Ind., and Torrence, Cal. Any level of training can be handled.

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(5) Questions posed by

- (a) What additional sub-components, modules or cards will be required by SAC at Beale AFB?
- (b) What additional ground maintenance support equipment will be required?
- (c) Will an AN/GRC-115 ground station be required at Beale AFB?

B. 30 July 1963 SAC Headquarters Omaha, Neb. Discussions were held with Col. Elsworth Powell, DDCOR, relating to ARC-50 installation on the KC-135 aircraft.

(1) Col. Powell stated that he felt the program was moving along well. The installation program at Beale AFB is now in full swing with Contractor support for check-out, minor maintenance, and training. Col. Powell stated that, with some assistance from Project Headquarters, the development of a Blue Suit Maintenance capability could be accomplished within a reasonable period.

(2) Col. Powell stated that he did not feel that a ground control station (GRC-115) would be required at Beale.

(3) Preparations for satisfying operational training requirements and desired technical changes in equipment operation were discussed briefly with Col. Powell.

(4) Col. Powell stated that 58-074 would be the first available KC-135 with all modifications.

C. 31 July 1963 Beale AFB, Cal. Discussions were held with Lt. Col. Felices, 903 ARHFS, concerning installation, maintenance, and operational training requirements for the ARC-50 in the KC-135 tankers.

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(1) Lt. Col. Felices and his group are enthusiastic about the ARC-50 and the impact of the system on the Project. The first installation completed at Beale by the LAC- [] contractor team was successfully tested in the narrow band mode on 31 July 1963. The Contractor team had instructed the Service personnel group in making the installation. Upon completion of the second installation, the Contractor team, with the exception of [] [] were to return to Los Angeles.

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(2) Lt. Col. Felices, in concert with the [] tech reps, was in the process of working up a local training and familiarization program for the crewmen.

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(3) Technical changes desired in equipment performances were discussed with Lt. Col. Felices and the [] tech reps. It was generally agreed that the ADF antenna change could be made locally.

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(4) Lt. Col. Felices stated that he would like six ARC-50 qualified maintenance men as soon as he could get them.

(5) It was agreed that tech rep assistance would be requested for Beale for six months to a year during the shakedown and training period. [] is now at Beale.

(6) Nine sets of short and long code matrix boards were delivered to Lt. Col. Felices on 31 July 1963. He was requested to do no testing in the wide band mode until requested to do so []

On 1 August 1963 LAC, Burbank, Cal., and []

(1) Discussions were first held with [] of LAC. The status of procurement and installations was reviewed. The ARC-50 has been installed in Article 125 and 126, but the aircraft have not been released from flight test yet.

[] suggested that a visit to the [] would be highly desirable, especially with regard to the new procurement of ground stations and the technical changes desired in the ARC-50.

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(3) [] stated that work was progressing on the antenna patterns desired (SMB and ARC-50 on the Article and the KC-135).

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(4) In the afternoon of 1 August [] of LAC and the writer visited []. Technical discussions were held with [].

(5) The outcome of the discussions was to the effect that the technical changes desired were perfectly feasible, however, some would require about 6 months to complete. Continuous ADF could be accomplished immediately. Automatic ranging and shortening of the range period may require six months.

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(6) [] was requested by LAC to submit a proposal covering 4 sets of GRC-115 ground station equipment with 4 sets of module spares and 4 sets of parts peculiar spares.

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B. 2 August 1963 []

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(1) Discussions were held at [] and others concerning the desired ARC-50 technical changes and the requirements for training aids.

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(2) LAC and [] contractor personnel have installed the ARC-50 ground station with dual remote controls. One set of controls are located in the test tower and one set in the main control tower. The main control tower can seize control at any time required.

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(3) [] does not think a training film is appropriate at this time. The writer attempted to explain that the type of training aid desired would be more of an indoctrination-orientation type presentation and would deal very little with the actual tactics which may be employed in a refueling mission. Development of the tactics was implied to be a function of the operational group employing the training aid as a technical guide.

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(4) The writer informed [] and others that [] stood ready to support training aid requirements with any audio and visual elements desired.

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